

Nomenclature Practice Sheet

I. Name the following compounds:

- | | | |
|---------------------------------|----------------------------|-------------------------------|
| 1. H_2CO_3 (aq) | 5. AlCl_3 | 9. CuI_2 |
| 2. Li_2S | 6. BaI_2 | 10. H_3P (aq) |
| 3. NaBr | 7. Bi_2O_5 | 11. HBrO_4 (aq) |
| 4. ZnCl_2 | 8. CdS | 12. Sb_2O_5 |

II. Write formulas for the following compounds:

- | | |
|-------------------------|-------------------------|
| 1. aluminum bromide | 7. carbon disulfide |
| 2. copper (I) oxide | 8. carbon tetrachloride |
| 3. hydrogen sulfide | 9. dinitrogen tetroxide |
| 4. iodic acid | 10. hydroarsenic acid |
| 5. nickel (III) nitride | 11. nitrous acid |
| 6. potassium iodide | 12. trisulfur pentoxide |

III. Name the following compounds:

- | | |
|--|---|
| 1. AgNO_3 | 9. $(\text{NH}_4)_2\text{CO}_3$ |
| 2. $\text{Cd}(\text{NO}_3)_2$ | 10. BiPO_3 |
| 3. $\text{Fe}(\text{C}_2\text{H}_3\text{O}_2)_3$ | 11. CS_2 |
| 4. $\text{Fe}(\text{OH})_3$ | 12. $\text{H}_2\text{C}_2\text{O}_4$ (aq) |
| 5. FeHPO_4 | 13. H_2Se (aq) |
| 6. MgS | 14. NH_4OH |
| 7. MgSO_3 | 15. $\text{Ni}(\text{HCO}_3)_3$ |
| 8. PbI_4 | 16. $\text{Sn}(\text{NO}_2)_4$ |

IV. Write formulas for the following compounds:

- | | |
|--------------------------|-----------------------------|
| 1. acetic acid | 7. ammonium nitride |
| 2. aluminum acetate | 8. cobalt (II) hypochlorite |
| 3. barium sulfite | 9. fluorous acid |
| 4. calcium bromide | 10. hydrofluoric acid |
| 5. chromium (II) nitrate | 11. iron (II) permanganate |
| 6. zinc sulfate | 12. potassium chlorite |

Nomenclature Practice Sheet – Answer KEY

I. Name the following compounds:

- | | | | | | |
|---------------------------------|-----------------|----------------------------|-------------------|-------------------------------|----------------------|
| 1. H_2CO_3 (aq) | carbonic acid | 5. AlCl_3 | aluminum chloride | 9. CuI_2 | copper (II) iodide |
| 2. Li_2S | lithium sulfide | 6. BaI_2 | barium iodide | 10. H_3P (aq) | hydrophosphoric acid |
| 3. NaBr | sodium bromide | 7. Bi_2O_5 | bismuth (V) oxide | 11. HBrO_4 (aq) | perbromic acid |
| 4. ZnCl_2 | zinc chloride | 8. CdS | cadmium sulfide | 12. Sb_2O_5 | antimony (V) oxide |

II. Write formulas for the following compounds:

- | | | | |
|-------------------------|-----------------------|-------------------------|----------------------------|
| 1. aluminum bromide | AlBr_3 | 7. carbon disulfide | CS_2 |
| 2. copper (I) oxide | Cu_2O | 8. carbon tetrachloride | CCl_4 |
| 3. hydrogen sulfide | H_2S | 9. dinitrogen tetroxide | N_2O_4 |
| 4. iodic acid | HIO_3 (aq) | 10. hydroarsenic acid | H_3As (aq) |
| 5. nickel (III) nitride | NiN | 11. nitrous acid | HNO_2 (aq) |
| 6. potassium iodide | KI | 12. trisulfur pentoxide | S_3O_5 |

III. Name the following compounds:

- | | | | |
|--|------------------------------|---|---------------------------------|
| 1. AgNO_3 | silver nitrate | 9. $(\text{NH}_4)_2\text{CO}_3$ | ammonium carbonate |
| 2. $\text{Cd}(\text{NO}_3)_2$ | cadmium (II) nitrate | 10. BiPO_3 | bismuth (III) phosphite |
| 3. $\text{Fe}(\text{C}_2\text{H}_3\text{O}_2)_3$ | iron (III) acetate | 11. CS_2 | carbon disulfide |
| 4. $\text{Fe}(\text{OH})_3$ | iron (III) hydroxide | 12. $\text{H}_2\text{C}_2\text{O}_4$ (aq) | oxalic acid |
| 5. FeHPO_4 | iron (II) hydrogen phosphate | 13. H_2Se (aq) | hydroselenic acid |
| 6. MgS | magnesium sulfide | 14. NH_4OH | ammonium hydroxide |
| 7. MgSO_3 | magnesium sulfite | 15. $\text{Ni}(\text{HCO}_3)_3$ | nickel (III) hydrogen carbonate |
| 8. PbI_4 | lead (IV) iodide | 16. $\text{Sn}(\text{NO}_2)_4$ | tin (IV) nitrite |

IV. Write formulas for the following compounds:

- | | | | |
|--------------------------|---|-----------------------------|-----------------------------|
| 1. acetic acid | $\text{HC}_2\text{H}_3\text{O}_2$ | 7. ammonium nitride | $(\text{NH}_4)_3\text{N}$ |
| 2. aluminum acetate | $\text{Al}(\text{C}_2\text{H}_3\text{O}_2)_3$ | 8. cobalt (II) hypochlorite | $\text{Co}(\text{ClO})_2$ |
| 3. barium sulfite | BaSO_3 | 9. fluorous acid | HFO_2 (aq) |
| 4. calcium bromide | CaBr_2 | 10. hydrofluoric acid | HF (aq) |
| 5. chromium (II) nitrate | $\text{Cr}(\text{NO}_3)_2$ | 11. iron (II) permanganate | $\text{Fe}(\text{MnO}_4)_2$ |
| 6. zinc sulfate | ZnSO_4 | 12. potassium chlorite | KClO_2 |